

IN THE CLAIMS

1-30. (Canceled)

31. (Previously Presented) The mattress according to claim 60, including an upper support layer made of an air-permeable material which rests on the foam core and/or the pressure cushions and supports removal of secreted bodily humidity away from the body.

32. (Previously Presented) The mattress according to claim 60, wherein the foam core and/or the pressure cushions rest on a bottom support layer made of an air-permeable material.

33-35. (Canceled)

36. (Previously Presented) The mattress according to claim 60, wherein each pressure cushion is configured as a solid cylinder.

37. (Currently Amended) The mattress according to claim 60, including additional channels in the foam core outside of the pressure cushions which increase air permeability.

38-40. (Canceled)

41. (Previously Presented) The mattress according to claim 60, wherein the foam core consists of one layer.

42. (Previously Presented) The mattress according to claim 60, wherein the foam core is composed of at least two layers with different degrees of hardness.

43. (Currently Amended) The mattress according to claim 60, including a control valuevalve for adjusting the pressure in each zone.

44. (Canceled)

45. (Previously Presented) The mattress according to claims 32, wherein a system of pressure cushions is connected with an air pump composed of elastic elements and valves, which pump is arranged beneath the mattress, is integrated in the bottom support layer or arranged in the foam core, so that an air conveying process is enabled as a result of a shifting of weight of the person lying on the mattress.

46. (Previously Presented) The mattress according to claim 45, wherein the air pump cooperates with a pressure control device for compensating a pressure loss as a result of a leakage loss.

47. (Previously Presented) The mattress according to claim 45, wherein the air pump cooperates with a pressure control device for building up a purposeful increase in pressure in the pressure cushions.

48-51. (Canceled)

52. (Previously Presented) The mattress according to claim 60, wherein at least one pressure cushion is arranged in a zone with high pressure hardness as lordosis support.

53. (Previously Presented) The mattress according to claim 60, wherein a lying surface of said mattress is subdivided into seven zones for achieving maximum comfort.

54. (Canceled)

55. (Previously Presented) The mattress according to claim 53, wherein fresh air can be supplied for overall cooling and/or removal of humidity, or warm air for overall heating of the mattress through the openings which are arranged parallel to the lying surface and penetrate the width of the mattress.

56. (Previously Presented) The mattress according to claim 55, including a blower for conveying the air.

57. (Previously Presented) The mattress according to claim 60, including sound-insulating material in inflow and outflow regions of each pressure cushion for reducing flow noises during a pressure compensation as a result of a change in the position of a person lying on the mattress.

58. (Previously Presented) The mattress according to claim 60, wherein overpressure in each pressure cushion lies between 0.1 bar and 0.6 bar.

59. (Previously Presented) The mattress according to claim 58, wherein said overpressure is between 0.15 and 0.30 bar.

60. (Previously Presented) An air-permeable mattress that provides great comfort and low weight, comprising

an elongated foam core that defines a longitudinal axis, opposite support surfaces on which a person can lie, and opposite lateral sides, a plurality of first transverse channels that extend in parallel between said opposite lateral sides and in parallel with said opposite support surfaces, and a plurality of second transverse channels that extend in parallel between said opposite lateral sides,

a plurality of air-filled pressure cushions respectively located in said plurality of first transverse channels, and

a plurality of connecting tubes interconnecting multiple pressure cushions to provide zones in said foam core having equal predetermined air pressures, said second transverse channels facilitating removal of humidity from said foam core.

61. (New) The mattress according to claim 60, wherein the second transverse channels are open-ended.